

Overview Sylodamp®

by getzner
sylodamp®

Material

Mixed cell polyurethane (PUR) with pronounced damping properties.

Standard delivery specifications

Thickness: 0.5 in/1.0 in
 Rolls: 4.9 ft wide, 16.4 ft long
 Sheets: 4.9 ft wide, 3.3 ft long
 Strips: up to 4.9 ft wide, up to 16.4 ft long

Other dimensions, punched and moulded parts on request. Sylodamp® SP 500 and Sylodamp® SP 1000 are only available in the maximum dimension of sheets.

Sylodamp® Material type



Properties	Test procedures	SP 10	SP 30	SP 100	SP 300	SP 500	SP 1000
Color		lemon yellow	pastel green	light green	traffic green	curry	turquoise green
Static range of use ¹ in psi		0.73	1.74	7.25	21.76	36.26	72.52
Load peaks ¹ in psi		36.26	72.52	290.08	435.11	507.63	725.19
Mechanical loss factor	DIN 53513 ²	0.61	0.48	0.47	0.47	0.46	0.46
Rebound elasticity in %	EN ISO 8307	13	15	15	14	16	15
Specific energy absorption in btu (at 0,08 in bearing thickness)	Getzner Werkstoffe	up to 0.0011	up to 0.0030	up to 0.0073	up to 0.0183	up to 0.0306	up to 0.0514
Resistance to strain ¹ in psi (at 10 % deformation)	EN ISO 844 ²	1.45	4.35	14.50	43.51	72.52	145.04
Compression ³ set in %	EN ISO 1856	<5	<5	<5	<5	<5	<5
Static shear modulus ¹ in psi	DIN ISO 1827 ²	8.27	18.85	44.96	159.54	188.55	275.57
Dynamic shear modulus ¹ in psi	DIN ISO 1827 ²	34.81	76.87	129.08	333.59	551.14	725.19
Min. tensile stress at rupture in psi	DIN EN ISO 527-3/5/100 ²	29.01	58.02	87.02	217.56	261.07	435.11
Min. tensile elongation at rupture in %	DIN EN ISO 527-3/5/100 ²	200	175	150	125	125	125
Abrasion ³ in in ³	DIN ISO 4649	≤ 0.293	≤ 0.189	≤ 0.122	≤ 0.104	≤ 0.098	≤ 0.079
Coefficient of friction (steel)	Getzner Werkstoffe	≥ 0.5	≥ 0.5	≥ 0.5	≥ 0.5	≥ 0.5	≥ 0.5
Coefficient of friction (concrete)	Getzner Werkstoffe	≥ 0.7	≥ 0.7	≥ 0.7	≥ 0.7	≥ 0.7	≥ 0.7
Specific volume resistance in Ω·in	DIN IEC 60093	>10 ¹¹	>10 ¹¹	>10 ¹¹	>10 ¹¹	>10 ¹¹	>10 ¹¹
Thermal conductivity in W/mK	DIN EN 12667	0.039	0.043	0.061	0.082	0.100	0.110
Operating temperature ⁴ in °F		-20 to 160					
Temperature peak in °F	short term ⁵	250					
Flammability	EN ISO 11925-2	class E/EN 13501-1					

¹ Data valid for a form factor of q = 3

² Tests according to respective standards

³ Testing parameters vary depending on density

⁴ Increase in temperature due to energy conversion to be considered

⁵ Application-specific

All information and data is based on our current knowledge. The data can be applied for calculations and as guidelines, are subject to typical manufacturing tolerances, and are not guaranteed. We reserve the right to amend the data.

Data sheets on the various material types and special specifications available on request.

Overview Sylodamp®



Material

Mixed cell polyurethane (PUR) with pronounced damping properties.

Standard delivery specifications

- Thickness: 12.5 mm / 25 mm
- Rolls: 1.5 m wide, 5.0 m long
- Sheets: 1.5 m wide, 1.0 m long
- Strips: up to 1.5 m wide, up to 5.0 m long

Other dimensions, punched and moulded parts on request. Sylodamp® SP 500 and Sylodamp® SP 1000 are only available in the maximum dimension of sheets.

Sylodamp® Material type



Properties	Test procedures	SP 10	SP 30	SP 100	SP 300	SP 500	SP 1000
Color		lemon yellow	pastel green	light green	traffic green	curry	turquoise green
Static range of use ¹ in N/mm ²		0.005	0.012	0.050	0.150	0.250	0.500
Load peaks ¹ in N/mm ²		0.25	0.50	2.00	3.00	3.50	5.00
Mechanical loss factor	DIN 53513 ²	0.61	0.48	0.47	0.47	0.46	0.46
Rebound elasticity in %	EN ISO 8307	13	15	15	14	16	15
Specific energy absorption in mJ/mm ² (at 25 mm bearing thickness)	Getzner Werkstoffe	up to 1.8	up to 4.9	up to 12.0	up to 30.0	up to 50.0	up to 84.0
Resistance to strain ¹ in N/mm ² (at 10 % deformation)	EN ISO 844 ²	0.01	0.03	0.10	0.30	0.50	1.00
Compression ³ set in %	EN ISO 1856	<5	<5	<5	<5	<5	<5
Static shear modulus ¹ in N/mm ²	DIN ISO 1827 ²	0.057	0.130	0.310	1.100	1.300	1.900
Dynamic shear modulus ¹ in N/mm ²	DIN ISO 1827 ²	0.24	0.53	0.89	2.30	3.80	5.00
Min. tensile stress at rupture in N/mm ²	DIN EN ISO 527-3/5/100 ²	0.2	0.4	0.6	1.5	1.8	3.0
Min. tensile elongation at rupture in %	DIN EN ISO 527-3/5/100 ²	200	175	150	125	125	125
Abrasion ³ in mm ³	DIN ISO 4649	≤ 4,800	≤ 3,100	≤ 2,000	≤ 1,700	≤ 1,600	≤ 1,300
Coefficient of friction (steel)	Getzner Werkstoffe	≥ 0.5	≥ 0.5	≥ 0.5	≥ 0.5	≥ 0.5	≥ 0.5
Coefficient of friction (concrete)	Getzner Werkstoffe	≥ 0.7	≥ 0.7	≥ 0.7	≥ 0.7	≥ 0.7	≥ 0.7
Specific volume resistance in Ω·cm	DIN IEC 60093	>10 ¹²	>10 ¹²	>10 ¹²	>10 ¹²	>10 ¹²	>10 ¹²
Thermal conductivity in W/mK	DIN EN 12667	0.039	0.043	0.061	0.082	0.100	0.110
Operating temperature ⁴ in °C		-30 to 70					
Temperature peak in °C	short term ⁵	120					
Flammability	EN ISO 11925-2	class E/EN 13501-1					

¹ Data valid for a form factor of q=3
² Tests according to respective standards
³ Testing parameters vary depending on density
⁴ Increase in temperature due to energy conversion to be considered
⁵ Application-specific

All information and data is based on our current knowledge. The data can be applied for calculations and as guidelines, are subject to typical manufacturing tolerances, and are not guaranteed. We reserve the right to amend the data.

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